



SEQUENCE LISTING

<110> Lawn, Richard M.
Wade, David
Oram, John F.
Garvin, Michael

<120> Compositions and Methods for Increasing Cholesterol
Efflux and Raising HDL using ATP Binding Cassette
Transporter Protein ABC1

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<140> 09/596,141

<141> 2000-06-16

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<151> 1999-06-18

<150> US 60/153,872

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 595 600 605
 Thr Gly Thr Glu Lys Lys Thr Gly Val Tyr Met Gln Gln Met Pro Tyr
 610 615 620
 Pro Cys Tyr Val Asp Asp Ile Phe Leu Arg Val Met Ser Arg Ser Met
 625 630 635 640
 Pro Leu Phe Met Thr Leu Ala Trp Ile Tyr Ser Val Ala Val Ile Ile
 645 650 655

Lys Gly Ile Val Tyr Glu Lys Glu Ala Arg Leu Lys Glu Thr Met Arg
 660 665 670
 Ile Met Gly Leu Asp Asn Ser Ile Leu Trp Phe Ser Trp Phe Ile Ser
 675 680 685
 Ser Leu Ile Pro Leu Leu Val Ser Ala Gly Leu Leu Val Val Ile Leu
 690 695 700
 Lys Leu Gly Asn Leu Leu Pro Tyr Ser Asp Pro Ser Val Val Phe Val
 705 710 715 720
 Phe Leu Ser Val Phe Ala Val Val Thr Ile Leu Gln Cys Phe Leu Ile
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 Ser Thr Leu Phe Ser Arg Ala Asn Leu Ala Ala Ala Cys Gly Gly Ile
 740 745 750
 Ile Tyr Phe Thr Leu Tyr Leu Pro Tyr Val Leu Cys Val Ala Trp Gln
 755 760 765
 Asp Tyr Val Gly Phe Thr Leu Lys Ile Phe Ala Ser Leu Leu Ser Pro
 770 775 780
 Val Ala Phe Gly Phe Gly Cys Glu Tyr Phe Ala Leu Phe Glu Glu Gln
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 Gly Ile Gly Val Gln Trp Asp Asn Leu Phe Glu Ser Pro Val Glu Glu
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 Asp Gly Phe Asn Leu Thr Thr Ser Ile Ser Met Met Leu Phe Asp Thr
 820 825 830
 Phe Leu Tyr Gly Val Met Thr Trp Tyr Ile Glu Ala Val Phe Pro Gly
 835 840 845
 Gln Tyr Gly Ile Pro Arg Pro Trp Tyr Phe Pro Cys Thr Lys Ser Tyr
 850 855 860
 Trp Phe Gly Glu Glu Ser Asp Glu Lys Ser His Pro Gly Ser Asn Gln
 865 870 875 880
 Lys Arg Met Ser Glu Ile Cys Met Glu Glu Glu Pro Thr His Leu Lys
 885 890 895
 Leu Gly Val Ser Ile Gln Asn Leu Val Lys Val Tyr Arg Asp Gly Met
 900 905 910
 Lys Val Ala Val Asp Gly Leu Ala Leu Asn Phe Tyr Glu Gly Gln Ile
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 Thr Ser Phe Leu Gly His Asn Gly Ala Gly Lys Thr Thr Thr Met Ser
 930 935 940
 Ile Leu Thr Gly Leu Phe Pro Pro Thr Ser Gly Thr Ala Tyr Ile Leu
 945 950 955 960

Gly Lys Asp Ile Arg Ser Glu Met Ser Thr Ile Arg Gln Asn Leu Gly
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 Val Cys Pro Gln His Asn Val Leu Phe Asp Met Leu Thr Val Glu Glu
 980 985 990
 His Ile Trp Phe Tyr Ala Arg Leu Lys Gly Leu Ser Glu Lys His Val
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 Lys Ala Glu Met Glu Gln Met Ala Leu Asp Val Gly Leu Pro Ser Ser
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 His His Met Asp Glu Ala Asp Val Leu Gly Asp Arg Ile Ala Ile Ile
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 Ser His Gly Lys Leu Cys Cys Val Gly Ser Ser Leu Phe Leu Lys Asn
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 Gln Leu Gly Thr Gly Tyr Tyr Leu Thr Leu Val Lys Lys Asp Val Glu
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 Ser Ser Leu Ser Ser Cys Arg Asn Ser Ser Ser Thr Val Ser Tyr Leu
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 Lys Lys Glu Asp Ser Val Ser Gln Ser Ser Ser Asp Ala Gly Leu Gly
 1155 1160 1165
 Ser Asp His Glu Ser Asp Thr Leu Thr Ile Asp Val Ser Ala Ile Ser
 1170 1175 1180
 Asn Leu Ile Arg Lys His Val Ser Glu Ala Arg Leu Val Glu Asp Ile
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 Gly His Glu Leu Thr Tyr Val Leu Pro Tyr Glu Ala Ala Lys Glu Gly
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 Ala Phe Val Glu Leu Phe His Glu Ile Asp Asp Arg Leu Ser Asp Leu
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 Gly Ile Ser Ser Tyr Gly Ile Ser Glu Thr Thr Leu Glu Glu Ile Phe
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 Leu Lys Val Ala Glu Glu Ser Gly Val Asp Ala Glu Thr Ser Asp Gly
 1250 1255 1260

Thr Leu Pro Ala Arg Arg Asn Arg Arg Ala Phe Gly Asp Lys Gln Ser
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 Cys Leu Arg Pro Phe Thr Glu Asp Asp Ala Ala Asp Pro Asn Asp Ser
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 Asp Ile Asp Pro Glu Ser Arg Glu Thr Asp Leu Leu Ser Gly Met Asp
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 Gly Lys Gly Ser Tyr Gln Val Lys Gly Trp Lys Leu Thr Gln Gln Gln
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 Phe Val Ala Leu Leu Trp Lys Arg Leu Leu Ile Ala Arg Arg Ser Arg
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 Thr Lys Asp Pro Gly Phe Gly Thr Arg Cys Met Glu Gly Asn Pro Ile
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 Pro Asp Thr Pro Cys Gln Ala Gly Glu Glu Glu Trp Thr Thr Ala Pro
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 Val Pro Gln Thr Ile Met Asp Leu Phe Gln Asn Gly Asn Trp Thr Met
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 Gln Asn Pro Ser Pro Ala Cys Gln Cys Ser Ser Asp Lys Ile Lys Lys
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 Met Leu Pro Val Cys Pro Pro Gly Ala Gly Gly Leu Pro Pro Pro Gln
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 Arg Lys Gln Asn Thr Ala Asp Ile Leu Gln Asp Leu Thr Gly Arg Asn
 1490 1495 1500
 Ile Ser Asp Tyr Leu Val Lys Thr Tyr Val Gln Ile Ile Ala Lys Ser
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 Leu Gly Val Ser Asn Thr Gln Ala Leu Pro Pro Ser Gln Glu Val Asn
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 Asp Ala Ile Lys Gln Met Lys Lys His Leu Lys Leu Ala Lys Asp Ser
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Ser Ala Asp Arg Phe Leu Asn Ser Leu Gly Arg Phe Met Thr Gly Leu
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Asp Thr Arg Asn Asn Val Lys Val Trp Phe Asn Asn Lys Gly Trp His
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Ala Ile Ser Ser Phe Leu Asn Val Ile Asn Asn Ala Ile Leu Arg Ala
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Asn Leu Gln Lys Gly Glu Asn Pro Ser His Tyr Gly Ile Thr Ala Phe
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Asn His Pro Leu Asn Leu Thr Lys Gln Gln Leu Ser Glu Val Ala Leu
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Met Thr Thr Ser Val Asp Val Leu Val Ser Ile Cys Val Ile Phe Ala
 1650 1655 1660

Met Ser Phe Val Pro Ala Ser Phe Val Val Phe Leu Ile Gln Glu Arg
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Val Ser Lys Ala Lys His Leu Gln Phe Ile Ser Gly Val Lys Pro Val
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Ile Tyr Trp Leu Ser Asn Phe Val Trp Asp Met Cys Asn Tyr Val Val
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Pro Ala Thr Leu Val Ile Ile Ile Phe Ile Cys Phe Gln Gln Lys Ser
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Tyr Val Ser Ser Thr Asn Leu Pro Val Leu Ala Leu Leu Leu Leu
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Tyr Gly Trp Ser Ile Thr Pro Leu Met Tyr Pro Ala Ser Phe Val Phe
 1745 1750 1755 1760

Lys Ile Pro Ser Thr Ala Tyr Val Val Leu Thr Ser Val Asn Leu Phe
 1765 1770 1775

Ile Gly Ile Asn Gly Ser Val Ala Thr Phe Val Leu Glu Leu Phe Thr
 1780 1785 1790

Asp Asn Lys Leu Asn Asn Ile Asn Asp Ile Leu Lys Ser Val Phe Leu
 1795 1800 1805

Ile Phe Pro His Phe Cys Leu Gly Arg Gly Leu Ile Asp Met Val Lys
 1810 1815 1820

Asn Gln Ala Met Ala Asp Ala Leu Glu Arg Phe Gly Glu Asn Arg Phe
 1825 1830 1835 1840

Val Ser Pro Leu Ser Trp Asp Leu Val Gly Arg Asn Leu Phe Ala Met
 1845 1850 1855

Ala Val Glu Gly Val Val Phe Phe Leu Ile Thr Val Leu Ile Gln Tyr
 1860 1865 1870

Arg Phe Phe Ile Arg Pro Arg Pro Val Asn Ala Lys Leu Ser Pro Leu
 1875 1880 1885

Asn Asp Glu Asp Glu Asp Val Arg Arg Glu Arg Gln Arg Ile Leu Asp
 1890 1895 1900

Gly Gly Gly Gln Asn Asp Ile Leu Glu Ile Lys Glu Leu Thr Lys Ile
 1905 1910 1915 1920

Tyr Arg Arg Lys Arg Lys Pro Ala Val Asp Arg Ile Cys Val Gly Ile
 1925 1930 1935

Pro Pro Gly Glu Cys Phe Gly Leu Leu Gly Val Asn Gly Ala Gly Lys
 1940 1945 1950

Ser Ser Thr Phe Lys Met Leu Thr Gly Asp Thr Thr Val Thr Arg Gly
 1955 1960 1965

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 1970 1975 1980

His Gln Asn Met Gly Tyr Cys Pro Gln Phe Asp Ala Ile Thr Glu Leu
 1985 1990 1995 2000

Leu Thr Gly Arg Glu His Val Glu Phe Phe Ala Leu Leu Arg Gly Val
 2005 2010 2015

Pro Glu Lys Glu Val Gly Lys Val Gly Glu Trp Ala Ile Arg Lys Leu
 2020 2025 2030

Gly Leu Val Lys Tyr Gly Glu Lys Tyr Ala Gly Asn Tyr Ser Gly Gly
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 2050 2055 2060

Val Val Phe Leu Asp Glu Pro Thr Thr Gly Met Asp Pro Lys Ala Arg
 2065 2070 2075 2080

Arg Phe Leu Trp Asn Cys Ala Leu Ser Val Val Lys Glu Gly Arg Ser
 2085 2090 2095

Val Val Leu Thr Ser His Ser Met Glu Glu Cys Glu Ala Leu Cys Thr
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Gln His Leu Lys Asn Arg Phe Gly Asp Gly Tyr Thr Ile Val Val Arg
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Gln Tyr Gln Leu Pro Ser Ser Leu Ser Ser Leu Ala Arg Ile Phe Ser
 2180 2185 2190

Ile Leu Ser Gln Ser Lys Lys Arg Leu His Ile Glu Asp Tyr Ser Val
 2195 2200 2205

Ser Gln Thr Thr Leu Asp Gln Val Phe Val Asn Phe Ala Lys Asp Gln
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Ser Asp Asp Asp His Leu Lys Asp Leu Ser Leu His Lys Asn Gln Thr
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<212> DNA
<213> Homo sapiens

<220>
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<222> (1)..(748)
<223> All n's are unknown.

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<212> DNA
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<211> 3366

<212> DNA

<213> Homo sapiens

<220>

<221> unsure

<222> (1)..(3366)

<223> All n's are unknown.

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Pro	Tyr	Cys	Asn	Asp	Leu	Met	Lys	Asn	Leu	Glu	Ser	Ser	Pro	Leu	Ser
		355					360					365			
Arg	Ile	Ile	Trp	Lys	Ala	Leu	Lys	Pro	Leu	Leu	Val	Gly	Lys	Ile	Leu
	370					375					380				
Tyr	Thr	Pro	Asp	Thr	Pro	Ala	Thr	Arg	Gln	Val	Met	Ala	Glu	Val	Asn

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Lys Thr Phe Gln Glu Leu Ala Val Phe His Asp Leu Glu Gly Met Trp						
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Glu Glu Leu Ser Pro Lys Ile Trp Thr Phe Met Glu Asn Ser Gln Glu						
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Met Asp Leu Val Arg Met Leu Leu Asp Ser Arg Asp Asn Asp His Phe						
		435		440		445
Trp Glu Gln Gln Leu Asp Gly Leu Asp Trp Thr Ala Gln Asp Ile Val						
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Ala Phe Leu Ala Lys His Pro Glu Asp Val Gln Ser Ser Asn Gly Ser						
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Val Tyr Thr Trp Arg Glu Ala Phe Asn Glu Thr Asn Gln Ala Ile Arg						
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Thr Ile Ser Arg Phe Met Glu Cys Val Asn Leu Asn Lys Leu Glu Pro						
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Ile Ala Thr Glu Val Trp Leu Ile Asn Lys Ser Met Glu Leu Leu Asp						
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Glu Arg Lys Phe Trp Ala Gly Ile Val Phe Thr Gly Ile Thr Pro Gly						
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Ser Ile Glu Leu Pro His His Val Lys Tyr Lys Ile Arg Met Asp Ile						
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Asp Asn Val Glu Arg Thr Asn Lys Ile Lys Asp Gly Tyr Trp Asp Pro						
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Gly Pro Arg Ala Asp Pro Phe Glu Asp Met Arg Tyr Val Trp Gly Gly						
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Phe Ala Tyr Leu Arg Asp Val Val Glu Gln Ala Ile Ile Arg Val Leu						
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Thr Gly Thr Glu Lys Lys Thr Gly Val Tyr Met Gln Gln Met Pro Tyr						
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Pro Cys Tyr Val Asp Asp Ile Phe Leu Arg Val Met Ser Arg Ser Met						
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Pro Leu Phe Met Thr Leu Ala Trp Ile Tyr Ser Val Ala Val Ile Ile						
		645		650		655
Lys Gly Ile Val Tyr Glu Lys Glu Ala Arg Leu Lys Glu Thr Met Arg						
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Ile Met Gly Leu Asp Asn Ser Ile Leu Trp Phe Ser Trp Phe Ile Ser						
		675		680		685
Ser Leu Ile Pro Leu Leu Val Ser Ala Gly Leu Leu Val Val Ile Leu						

690	695	700
Lys Leu Gly Asn Leu Leu Pro Tyr Ser Asp Pro Ser Val Val Phe Val 705 710 715 720		
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His Ile Trp Phe Tyr Ala Arg Leu Lys Gly Leu Ser Glu Lys His Val		

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Asp Glu Pro Thr Ala Gly Val Asp Pro Tyr Ser Arg Arg Gly Ile Trp 1060	1065	1070
Glu Leu Leu Leu Lys Tyr Arg Gln Gly Arg Thr Ile Ile Leu Ser Thr 1075	1080	1085
His His Met Asp Glu Ala Asp Val Leu Gly Asp Arg Ile Ala Ile Ile 1090	1095	1100
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Gln Leu Gly Thr Gly Tyr Tyr Leu Thr Leu Val Lys Lys Asp Val Glu 1125	1130	1135
Ser Ser Leu Ser Ser Cys Arg Asn Ser Ser Thr Val Ser Tyr Leu 1140	1145	1150
Lys Lys Glu Asp Ser Val Ser Gln Ser Ser Ser Asp Ala Gly Leu Gly 1155	1160	1165
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Gly His Glu Leu Thr Tyr Val Leu Pro Tyr Glu Ala Ala Lys Glu Gly 1205	1210	1215
Ala Phe Val Glu Leu Phe His Glu Ile Asp Asp Arg Leu Ser Asp Leu 1220	1225	1230
Gly Ile Ser Ser Tyr Gly Ile Ser Glu Thr Thr Leu Glu Glu Ile Phe 1235	1240	1245
Leu Lys Val Ala Glu Glu Ser Gly Val Asp Ala Glu Thr Ser Asp Gly 1250	1255	1260
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Cys Leu Arg Pro Phe Thr Glu Asp Asp Ala Ala Asp Pro Asn Asp Ser 1285	1290	1295
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2210

2215

2220

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amplification primer

<400> 11
cctctcatta cacaaaaacc agac 24

<210> 12
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: ABC1
amplification primer

<400> 12
gctttcttttc acttctcatc ctg 23

<210> 13
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: ABC1 RT-PCR
primer

<400> 13
tccttgagggtt caggggatta tc 22

<210> 14
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: ABC1 RT-PCR
primer

<400> 14
caatgttttt gtggcttcgg c 21

<210> 15
<211> 40
<212> DNA
<213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: ABC1 RT-PCR
 primer

<400> 15
 agtcgagctc caaacatgtc agctgttact ggaagtggcc 40

<210> 16
 <211> 25
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: ABC1 RT-PCR
 primer

<400> 16
 tctctggatt ctgggtctat gtcag 25

<210> 17
 <211> 23
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: ABC1 RT-PCR
 primer

<400> 17
 gggagccttt gtggaactct ttc 23

<210> 18
 <211> 41
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: ABC1 RT-PCR
 primer

<400> 18
 actggtcgac cattgaattg cattgcattg aatagtatca g 41

<210> 19
 <211> 19
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: ABC1
 sequencing primer

<400> 19
 tttcctggtg gacaatgaa 19

<210> 20

<211> 18
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: ABC1
 sequencing primer

 <400> 20
 agtgacatgc gacaggag 18

 <210> 21
 <211> 18
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: ABC1
 sequencing primer

 <400> 21
 gatctggaag gcatgtgg 18

 <210> 22
 <211> 18
 <212> DNA
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 <220>
 <223> Description of Artificial Sequence: ABC1
 sequencing primer

 <400> 22
 ccaggcagca ttgagctg 18

 <210> 23
 <211> 18
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: ABC1
 sequencing primer

 <400> 23
 ggcttgaca acagcata 18

 <210> 24
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 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: ABC1
 sequencing primer

 <400> 24

ggacaacctg tttgagagt	19
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<400> 25	
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<210> 26	
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sequencing primer

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agcgacaaaa tcaagaag 18

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<400> 30
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sequencing primer

<400> 31
tcctccacca atctgcct 18

<210> 32
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<220>
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<400> 32
ttcttcctca ttactgtt 18

<210> 33
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<220>
<223> Description of Artificial Sequence: ABC1
sequencing primer

<400> 33
gatgccatca cagagctg 18

<210> 34
<211> 17
<212> DNA
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<220>
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<400> 34
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<210> 35
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<220>
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<400> 35
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<210> 36
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<220>
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 sequencing primer

<400> 36
 cttagggcac aattccaca 19

<210> 37
 <211> 18
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: ABC1
 sequencing primer

<400> 37
 tgaaagttga tgattttc 18

<210> 38
 <211> 19
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: ABC1
 sequencing primer

<400> 38
 tttttcacca tgatgatga 19

<210> 39

<211> 17
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: ABC1
 sequencing primer

 <400> 39
 ctccactgat gaactgc 17

 <210> 40
 <211> 18
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: ABC1
 sequencing primer

 <400> 40
 gtttcttcat ttgtttga 18

 <210> 41
 <211> 18
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 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: ABC1
 sequencing primer

 <400> 41
 agggcgtgtc tgggattg 18

 <210> 42
 <211> 18
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: ABC1
 sequencing primer

 <400> 42
 cagaatcatt tggatcag 18

 <210> 43
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 <220>
 <223> Description of Artificial Sequence: ABC1
 sequencing primer

 <400> 43

catcagaact gctctgag 18

<210> 44

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: ABC1
sequencing primer

<400> 44

agctggcttg ttttgcttt 19

<210> 45

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: ABC1
sequencing primer

<400> 45

tggacacgcc cagcttca 18

<210> 46

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: ABC1
sequencing primer

<400> 46

cctgccatgc cacacaca 18

<210> 47

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: ABC1
sequencing primer

<400> 47

ctcatcaccc gcagaaag 18

<210> 48

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: ABC1

sequencing primer

<400> 48
cacactccat gaagcgag 18

<210> 49
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: ABC1
sequencing primer

<400> 49
tccagataat gcgggaaa 18

<210> 50
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: ABC1
sequencing primer

<400> 50
tcaggattgg cttcagga 18

<210> 51
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<220>
<223> Description of Artificial Sequence: ABC1
sequencing primer

<400> 51
aagtttgagc tggatttctt g 21

<210> 52
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<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: beta-globin
antisense oligonucleotide

<400> 52
cctcttacct cagttacaat ttata 25

<210> 53
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: ABC1 antisense
 oligonucleotide

<400> 53
 catgttggttc ataggtggg tagctc 26

<210> 54
 <211> 24
 <212> DNA
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<220>
 <223> Description of Artificial Sequence: beta-actin
 amplification primer

<400> 54
 tcacccacac tgtgccatct acga 24

<210> 55
 <211> 25
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: beta-actin
 amplification primer

<400> 55
 cagcgaacc gctcattgcc aatgg 25

<210> 56
 <211> 26
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: sterol
 response element oligonucleotide

<400> 56
 tcgagtgacc gatagtaacc tctcga 26

<210> 57
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 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: mutated sterol
 response element oligonucleotide

<400> 57
 tcgagctgca catagtaacc tctcga 26

<210> 58

<211> 60
<212> PRT
<213> Homo sapiens

<400> 58

Met Ala Cys Trp Pro Gln Leu Arg Leu Leu Leu Trp Lys Asn Leu Thr
1 5 10 15

Phe Arg Arg Arg Gln Thr Cys Gln Leu Leu Leu Glu Val Ala Trp Pro
20 25 30

Leu Phe Ile Phe Leu Ile Leu Ile Ser Val Arg Leu Ser Tyr Pro Pro
35 40 45

Tyr Glu Gln His Glu Cys His Phe Pro Asn Lys Ala
50 55 60

<210> 59
<211> 10
<212> RNA
<213> Artificial

<220>
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<223> n stands for any nucleotide.

<220>
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<222> (10)..(10)
<223> n stands for any nucleotide.

<400> 59
aancuucaan

10

<210> 60
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<213> Artificial

<220>
<223> Synthetic ABC1 peptide

<400> 60

Lys Asn Gln Thr Val Val Asp Ala Val Leu Thr Ser Phe Leu Gln Asp
1 5 10 15

Glu Lys Val Lys Glu Ser

<210> 61
<211> 16
<212> DNA
<213> Artificial

<220>
<223> Sterol response element

<400> 61
tgaccgatag taacct

16

B7
<210> 62
<211> 16
<212> DNA
<213> Artificial

<220>
<223> Mutated sterol response element

<400> 62
ctgcacatag taacct

16